req_by_rel	paragraph_id	object_id	Release	text	clarification	Req_Interpretation	Req_Category	segment_allocation	req_type	s_verif_method	s_verif_status	a_verif_method	a_verif_status	CCR
Cc	AM1-0020#B	9679	B	The EOC shall have the capability to send (via EDOS/EBnet and the SN, AGS, SGS, or WOTS) and the AM-1 spacecraft shall have the capability to receive spacecraft commands in CCSDS CLTUs (as defined in AM-1 ICD 106).			mission critical	FOS | CSMS	interface	test	~~verified~~	test	~~verified~~	97-1590
Ct	AM1-0020#B										**F_verified**		**F_verified**	
Cc	AM1-0030#B	9680	B	The EOC shall have the capability to send (via EDOS/EBnet and the SN, AGS, SGS, or WOTS) and the AM-1 spacecraft shall have the capability to receive instrument commands in CCSDS CLTUs (as defined in AM-1 ICD 106).			mission critical	FOS | CSMS	interface	test	~~verified~~	test	~~verified~~	97-1590

											F_verified		**F_verified**	
Ct	AM1-0030#B										**F_verified**		**F_verified**	
Cc	AM1-0050#B	9681	B	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) real time AM-1 spacecraft and instrument housekeeping telemetry packets (as defined in AM-1 ICD 106) via EDOS/EBnet and the SN, AGS, SGS, or WOTS interfaces.			mission critical	FOS | CSMS	interface	test	~~verified~~	test	~~verified~~	97-1590
Ct	AM1-0050#B										**F_verified**		**F_verified**	
Cc	AM1-0120#B	9682		The EOC shall have the capability to send and the AM-1 spacecraft shall have the capability to receive spacecraft commands in CCSDS CLTUs (as defined in AM-1		Ecom is considered to be EBnet.	mission critical	FOS | CSMS	interface	demo	~~verified~~	demo	~~verified~~	97-1590

Table1. RBR Modifications
CCR 98-0248
Data Reflects RTM Baseline 12-16-97

				ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.										
Ct	AM1-0120#B										**F verified**		**F verified**	
Cc	AM1-0125#B	9683		The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) real time AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.		Ecom is considered to be EBnet.	mission critical	FOS | CSMS	interface	demo	~~verified~~	demo	~~verified~~	97-1590
Ct	AM1-0125#B					.					**F verified**		**F verified**	
Cc	AM1-1000#B	9689	B	ECS functions			mission essential	FOS | CSMS	interface | RMA	analysis	~~verified~~	analysis	~~verified~~	97-1590

				shall have an operational availability (computed as defined in the Functional and Performance Requirements Specification for the ECS) of 0.96 at a minimum and a mean down time (MDT) of four (4) hours or less, unless otherwise specified.										
Ct	AM1-1000#B										**F_verified**		**F_verified**	
Cc	EDOS-4.2.1.4#B	9725	B	The EDOS-EOC interface shall provide the capability to support the transfer of real-time return link data at a rate of up to 32 kbps.			mission critical	FOS | CSMS	performance | interface	demo	~~verified~~	demo	~~verified~~	97-1590
Ct	EDOS-4.2.1.4#B										**F_verified**		**F_verified**	
Cc	EOC-0030#B	9696		The EOC shall receive the LTSP and LTIP from the SMC.			mission critical	FOS | CSMS	functional	demo	~~verified~~	demo	~~verified~~	97-1590
Ct	EOC-0030#B										**F_verified**		**F_verified**	
Cc	EOSD0025#B	9731	B	ECS shall use EBnet for flight operations data			mission critical	FOS | CSMS	functional | operational |	test	~~verified~~	test	~~verified~~	97-1590

				transfers.					interface					
Ct	EOSD0025#B										**F_verified**		**F_verified**	
Cc	EOSD0560#B	9732	B0B	ECS benchmark tests and test data sets shall be defined for system verification and data quality evaluation.		As part of acceptance test procedures (411/VE1) we will define a set of bench mark tests and associated test data that will be maintained under configuration control.	mission essential	FOS | SDPS | CSMS	operational | procedural	inspection	~~verified~~	inspection	~~verified~~	97-1590
Ct	EOSD0560#B										**F_verified**		**F_verified**	
Cc	EOSD0700#B	9733	B0B	Each ECS element shall provide the following, to be used in the revalidation of its functional performance: a. Benchmark test(s)		As part of acceptance test procedures (411/VE1) we will define a	mission essential	FOS | SDPS | CSMS	operational | procedural	inspection	~~verified~~	inspection	~~verified~~	97-1590

				b. Standard test data sets.		set of bench mark tests and associated test data that will be maintained under configuration control.								
Ct	EOSD0700#B										**F_verified**		**F_verified**	
Cc	EOSD0720#B	9734	B0 B	Each ECS element shall be able to validate at any time during the life-time of the ECS that the ECS element primary functional performance is consistent with pre-defined operational benchmark tests.			mission critical	FOS | SDPS | CSMS	operation al | procedur al	test	~~verified~~	test	~~verified~~	97-1590
Ct	EOSD0720#B										**F_verified**		**F_verified**	
Cc	EOSD0730#B	9735	B0 B	Each ECS element shall be capable of verifying the fidelity of the ECS element			mission critical	FOS | SDPS | CSMS	operation al | procedur al	test	~~verified~~	test	~~verified~~	97-1590

				interface to: a. Other ECS elements at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS										
Ct	EOSD0730#B										**F_verified**		**F_verified**	
Cc	EOSD0740#B	9736	B0 B	Each ECS element shall provide a set of real or simulated functional capabilities for use in the following types of test: a. Subsystem (components of an ECS element) b. Element (fully integrated element) c. ECS System (Integration of ECS elements)			mission fulfillment	FOS | SDPS | CSMS	operational | procedural	test	~~verified~~	test	~~verified~~	97-1590
Ct	EOSD0740#B										**F_verified**		**F_verified**	
Cc	EOSD0750#B	9737	B0 B	Each ECS element shall provide a set of real or simulated functions which interfaces with both its ECS internal and			mission fulfillment	FOS | SDPS | CSMS	operational | procedural	demo	~~verified~~	demo	~~verified~~	97-1590

				external entities for use in the following types of test: a. Subsystem (components of an ECS element) b. Element (fully integrated element) c. EOSDIS System (Integration of EOSDIS elements)									
Ct	EOSD0750#B										**F_verified**		**F_verified**	
Cc	EOSD0760#B	9785	B0B	Each ECS element shall support end-to-end EOS system testing and fault isolation.		FULL AM-1 END-TO-END TESTING	mission critical	FOS | CSMS	operational | procedural	demo	~~verified~~	demo	~~verified~~	97-1649A
Ct	EOSD0760#B										**F_verified**		**F_verified**	
Cc	EOSD1480#B	9739	B0B	ECS shall receive from the resident EOS Project Scientist the IWGs Long Term Science Plan (LTSP) and updates as required.		The LSM is responsible for providing system wide scheduling information via SMC-1315.	mission fulfillment	FOS | SDPS | CSMS	interface	demo	~~verified~~	demo	~~verified~~	97-1590
Ct	EOSD1480#B										**F_verified**		**F_verified**	

Cc	EOSD1510#B	9740	B	ECS elements shall provide the FDF with subsets of spacecraft housekeeping data related to the on-board attitude and orbit systems.			mission critical	FOS | CSMS	interface	test	~~verified~~	test	~~verified~~	97-1590
Ct	EOSD1510#B										**F_verified**		**F_verified**	
Cc	ICC-0040#B	9743		The ICC shall receive the LTSP and LTIP from the SMC.			mission essential	FOS | CSMS	functional	test	~~verified~~	test	~~verified~~	97-1590
Ct	ICC-0040#B										**F_verified**		**F_verified**	
Cc	ICC-4020#B	9747		The ICC shall provide the capability to accept CCSDS packets from EDOS containing at a minimum the following data types: a. Spacecraft and instrument housekeeping data b. Instrument engineering data or instrument science data within which instrument engineering data is embedded c. Instrument			mission critical	FOS | CSMS	functional	test	~~verified~~	test	~~verified~~	97-1590

				memory dump data							F verified		F verified	
Ct	ICC-4020#B										**F verified**		**F verified**	